

In the Claims:

~~Cancel claim 32 without prejudice or disclaimer.~~

*Amend claims to read as follows:*

1. (twice amended) An isolated polynucleotide comprising a polynucleotide selected from the group consisting of:

(a) a polynucleotide encoding the polypeptide consisting of the amino acid sequence of SEQ ID NO:2, wherein the polypeptide has EDG8 biological activity;

(b) a polynucleotide consisting of SEQ ID NO:1; and

(c) a polynucleotide having at least about 90% sequence identity to the polynucleotide of (a) or (b), wherein the polynucleotide encodes a polypeptide with EDG8 biological activity, and wherein the polynucleotide contains at least about 10 bases.

9. (twice amended) A fragment of the polynucleotide of SEQ ID NO:1, wherein the polynucleotide encodes a polypeptide with EDG8 biological activity, and wherein the polynucleotide contains at least about 10 bases

16. (twice amended) A process for producing a polypeptide comprising: culturing a host cell containing an expression vector comprising a polynucleotide encoding a polypeptide of SEQ ID NO:2 or a fragment thereof, under conditions sufficient for the production of said polypeptide and recovering the polypeptide from the culture, wherein the polypeptide has EDG8 biological activity, and wherein the polynucleotide contains at least about 15 bases.

17. (twice amended) A process for producing cells capable of expressing a polypeptide comprising genetically transfecting or transforming cells with a vector, wherein the vector comprises a polynucleotide encoding a polypeptide of SEQ ID NO:2, or a fragment thereof, wherein the polypeptide has EDG8 biological activity, and wherein the polynucleotide contains at least about 15 bases.

18. (twice amended) A process for producing a human EDG8 polypeptide or a fragment thereof comprising: culturing a host cell containing an expression vector comprising a polynucleotide encoding a polypeptide of SEQ ID NO:2 or a fragment thereof, under conditions sufficient for the production of said polypeptide and recovering the polypeptide from the culture, wherein the polypeptide has EDG8 biological activity, wherein the EDG8 biological activity is determined by assessing the ability of  $\text{Ca}^{2+}$  mobilization in response to the polypeptide or the fragment thereof, and wherein the polynucleotide contains at least about 15 bases.

19. (twice amended) An isolated polynucleotide which is a complement of a polynucleotide, selected from the group consisting of:

- (a) a polynucleotide encoding the polypeptide consisting of the amino acid sequence of SEQ ID NO:2, wherein the polypeptide has EDG8 biological activity;
- (b) a polynucleotide consisting of SEQ ID NO:1; and
- (c) a polynucleotide having at least about 90% sequence identity to the polynucleotide of (a) or (b), wherein the polynucleotide encodes a polypeptide with EDG8 biological activity, wherein the polynucleotide contains at least about 10 bases.